PTO/88/21 (04-07)

Approved for use through 09/30/2007. OMB 0651-0031

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the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. **Application Number**

10/805,650-Conf. #9645 Filing Date TRANSMITTAL March 19, 2004 First Named Inventor FORM ... Michael Borns Art Unit 1637 **Examiner Name** M. Staples (to be used for all correspondence after initial filing) Attorney Docket Number Total Number of Pages in This Submission 2382(225436)

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ENCLOSURES (Check all that apply)							
X Fee Trans	mittal Form	Drawing(s)		After Allowance Communication to TC			
Fee	Attached	Licensing-related Papers		Appeal Communication to Board of Appeals and Interferences			
Amendme	nt/Reply	Petition		Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)			
After	r Final	Petition to Convert to a Provisional Application	:	Proprietary Information			
Affid	avits/declaration(s)	Power of Attorney, Revocate Change of Correspondence		Status Letter			
Extension	of Time Request	Terminal Disclaimer	·	X Other Enclosure(s) (please Identify below):			
Express A	bandonment Request	Request for Refund		References and Return Receipt Postcard			
x Information	n Disclosure Statement	CD, Number of CD(s)					
Certified C	opy of Priority (s)	Landscape Täble on	CD				
	lissing Parts/ Application	Remarks					
	y to Missing Parts under FR 1.52 or 1.53						
	SIGNATU	JRE OF APPLICANT, ATTO	RNEY, OR	AGENT			
Firm Name EDWARDS ANGELL PALMER & DODGE LLP							
Signature	Signature Euzum 8						
Printed name	Elizabeth Spar			: ,			
Date	July 10, 2007		Reg. No.	45,123			

PTO/SB/17 (06-07)

Approved for use through 06/30/2007. OMB 0651-0032

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Complete if Known

Effective on 12/08/2	POOA	Complete if Known		
Fees pursuant to the Consolidated Appropr	iations Act, 2005 (H.R. 4818).	Application Number	10/805,650-Conf. #9645	
FEE TRANSI	MITTAL	Filing Date	March 19, 2004	
		First Named Inventor	Michael Borns	_
For FY 20	107	Examiner Name	M. Staples	
X Applicant claims small entity statu	us. See 37 CFR 1.27	Art Unit	1637	
TOTAL AMOUNT OF PAYMENT	(\$) 180.00	Attorney Docket No.	2382(225436)	

TOTAL AMOUNT OF PAYMENT (\$) 180.00		180.00	Attomey Docket No.		2382(225436)		
METHOD OF PAYMENT	(check all that a	apply)					
Check Credit Ca	ard Mone	y Order Nor	ne Other (please ide	entify):		
x Deposit Account Depos	x Deposit Account Deposit Account Number: 04-1105 Deposit Account Name: Stratagene California						
For the above-identif	fied deposit acco	ount, the Director is	hereby authorize	d to: (ch	eck all that apply)		
x Charge fee(s)	indicated below		Charge	e fee(s) i	ndicated below, ex	cept for t	he filing fee
X Charge any ad fee(s) under 3	ditional fee(s) or 7 CFR 1.16 and	underpayments of 1.17	x Credit	any over	payments		
FEE CALCULATION							
1. BASIC FILING, SEARCH	AND EXAMINA	TION FEES	· · · · · · · · · · · · · · · · · · ·				
	FILING F		ARCH FEES	EXAM	INATION FEES		
Application Type		all Entity ee (\$) Fee (\$	Small Entity Fee (\$)	Fee (\$	Small Entity) Fee (\$)	Fees !	Paid (\$)
Utility	300	150 500	250	200	100		
Design	200	100 100	50,	130	65		
Plant	200	100 300	150	160	80		
Reissue	300	150 500	250	600	300		
Provisional	200	100 0	0	0	0		
2. EXCESS CLAIM FEES							Small Entity
Fee Description	.					Fee (\$)	<u>Fee (\$)</u>
Each claim over 20 (including	,	-:				50	25
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3. APPLICATION SIZE FEE If the specification and draw listings under 37 CFR 1 sheets or fraction thereo	.52(e)), the appl	ication size fee du	e is \$250 (\$125 fo	onically or small	filed sequence or centity) for each ac	computer Iditional 50	0
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. OTHER FEE(S) Non-English Specification, \$130 fee (no small entity discount)							
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Other (e.g., late filing surcharge): 1806 Submission of an Information Disclosure Statement 180.00							
SUBMITTED BY						-	

SUBMITTED BY					
Signature	Elizabeth	Registration No. (Attorney/Agent)	45,123	Telephone	(617) 439-4444
Name (Print/Type)	Elizabeth Spar			Date	July 10, 2007

Docket No.: 2382(225436)

(PATENT)

N THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Michael Borns

Application No.: 10/805,650 Confirmation No.: 9645

Filed: March 19, 2004 Art Unit: 1637

For: DNA POLYMERASE FUSIONS AND Examiner: M. Staples

USES THEREOF

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (IDS)

MS Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

In accordance with 37 CFR 1.97, Applicant(s) hereby make of record the following additional documents. A PTO Form SB/08 and a full copy of each of the documents required under 37 CFR 1.98(a)(2) accompany this statement.

Applicant(s) have become aware of the following documents, cited in an International Search Report issued March 23, 2007, during the prosecution of International Application No. EP 04 75 8226, which corresponds to the above referenced application, and in accordance with 37 CFR 1.97(c) and (e)(1) or (b)(3), hereby submit(s) these documents for the Examiner's consideration. These documents are cited on the enclosed PTO Form SB/08, and a copy of the International Search Report and of each document required under 37 CFR 1.98(a)(2) cited thereon are enclosed as well.

This statement is not to be interpreted as a representation that the cited documents are material, that an exhaustive search has been conducted, or that no other relevant information exists. Nor shall the citation of any document herein be

180.00 DA

Application No.: 10/805,650 2 Docket No.: 2382(225436)

construed *per se* as a representation that such document is prior art. Moreover, Applicant(s) understand(s) the Examiner will make an independent evaluation of the cited documents.

This Information Disclosure Statement is filed more than three months after the U.S. filing date, OR more than three months after the date of entry of the national stage of a PCT application, AND after the mailing date of the first Office Action on the merits, whichever occurs first, but before the mailing date of a Final Office Action or Notice of Allowance (37 CFR 1.97(c)).

Furthermore, in accordance with 37 CFR 1.704(d), Applicant(s) note(s) that to our knowledge this communication was not received by any individual designated in 1.56(c) more than thirty days prior to the filing of this statement.

Please charge our Deposit Account No. 04-1105 in the amount of \$180.00 covering the fee set forth in 37 CFR 1.17(p). The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 04-1105, under Order No. 2382(225436). A duplicate copy of this paper is enclosed.

Dated: July 10, 2007

Respectfully submitted,

Elizabeth Spar

Registration No.: 45,123

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LLP

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Boston, Massachusetts 02205

(617) 439-4444

Attorneys/Agents For Applicant

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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of

Complete if Known				
Application Number 10/805,650-Conf. #9645				
Filing Date	March 19, 2004			
First Named Inventor	Michael Borns			
Art Unit	1637			
Examiner Name	M. Staples			
Attorney Docket Number	2382(225436)			

	U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ² (<i>if known</i>)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
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	FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.1	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear		
	A1	WO 0111051	02-15-2001	Lion Bioscience AG	Claims 1-43, examples 5, 7		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

		NON PATENT LITERATURE DOCUMENTS		
Examiner Initials Cite No.1 Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), pand/or country where published.				
	B1	Motz, Michael et al., "Elucidation of an archaeal replication protein network to generate enhanced PCR enzymes." The Journal of Biological Chemistry, May 3, 2002, Vol., 277, No. 18, pages 16179-16188.		
	B2	Pavlov, A.R. et al., "Helix-hairpin-helix motifs confer salt resistance and processivity on chimeric DNA polymerases" Proceedings of the National Academy of Sciences of USA, National Academy of Science, Wahsington, CD U.S. Vol. 99, No. 21, October 15, 2002, pages 13510-13515.		
	B3	Yates, Charles R. et al., "Molecular diagnosis of thiopurine S-methyltransferase deficiency: Genetic basis for azathioprine and mercaptopurine intolerance," Annals of Internal Medicine, Vol. 126, No. 8, 1997, pages 608-614.		
	B4 Siegelman, M. et al., "Rapid, nonradioactive screening for mutations in exons 10, 11, and 16 of the RET protooncogene associated with inherited medullary thyroid carcinoma," Clinical Chemistry, Mar 1997, Vol. 43, No. 3, March 1997, pages 453-457.			
	B5	Miettinen, PIJ. Et al., "Impaired migration and delayed differentiation of pancreatic islet cells in mice lacking EGF-receptors," Development (Cambridge, England) June 2000, Vol. 127, No. 12, June 2006, pages 2617-2627.		
	Boehlke, et al., "PCR performance of the B-type DNA polymerase from the thermophilic euryarchaeon Thermococcus aggregans improved by mutuations in the Y-GG/A motif," Nucleic Acids Research, Oxford University Press, Surrey, GB, Vol. 28, No. 20, October 15, 2000, pages 3910-3917.			
	Fogg, M.J. et al., "Structural basis for uracil recognitioin by archaeal family B DNA polymerases," Nature Structural Biology, New York, NY, US, Vol. 9, No. 12, December 2002, pages 922-927.			
	B8	Gardner, Andrew F. et al., "Determinanats of nucleotide sugar recognition in an archaeon DNA polymerase," Nucleic Acids Research, Oxford University Press, Surrey, GB, Vol. 27, No. 12, June 15, 1999, pages 2545-2553.		
	B9	Copy of Supplementary European Search Report for EP 04 75 8226, dated March 23, 2007.		
Examiner Signature	1	Date Considered		

JUL 1 9 2007 W

plication No. (if known): 10/805,650

Attorney Docket No.: 2382(225436)

Certificate of Express Mailing Under 37 CFR 1.10

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IDS (Citation) by Applicant (1 page) with (10 References) (162 pages) Supplemental Information Disclosure Statement (2 pages)

Transmittal (1 page)

Fee Transmittal Form (1 page)

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